



# Modernizing drive and control systems

The expertise and capability to bring any civil project up to date,

The technology and components in civil engineering projects are always built to last, but technology is always evolving and advancing at ever-increasing speeds. This means that without renovation and modernization, these civil structures can fall behind in terms of compliance and performance. VHT has the expertise and capability to bring any civil project using drive and control systems up to date, and can offer the technology to secure performance and efficiency for many years to come.

Most civil structures, particularly in western Europe, have been built in the years following the second world war. This means that while the engineering often remains reliable, the technology has long been

surpassed. This is particularly applicable to those civil constructions that utilize drive and control systems. These systems are based on technology that is constantly evolving, where parts and components are constantly redesigned and redeveloped, so it's essential to consider this as part of the servicing process.

While effective servicing keeps equipment going, it can also highlight where improvements can be made. Most, if not all, civil projects can benefit from some sort of renovation or modernization. For hydraulic drive systems, as an example, this can be anything from new, more durable piston rod coating technology for hydraulic cylinders to the latest materials designed for optimal tribology with the goal of reducing wear and therefore maximizing lifetime. For controls, the latest advances can offer remote monitoring and deeper

performance analysis. VHT is able to provide all of this, and much more besides.



### A wide range of improvements

VHT works with a lot of Large Projects, focused on renovation and modernization. When renovating, VHT usually replaces one-to-one but can include some functional improvements. Modernization brings the technology used in the drive and control systems fully up-to-date, so the customer can really experience significant benefits, as well as being fully compliant with the latest rules and regulations.

Updating drive and control systems to feature modern technology can result in a wide range of performance benefits. Materials that are more durable will maintain efficiency for longer periods, reducing maintenance costs and optimizing uptime. Switching from older hydraulic systems to electro-mechanical or electro-hydraulic technology can provide better performance in a smaller package, while reducing energy costs. VHT provides the knowledge needed to make the best decisions, and can offer the technology which will fully future proof the civil construction.

### Setting the trends

There's more to consider in civil construction now than ever before, as it's not only performance that's a priority but also things like connectivity and sustainability. VHT is focused on being able to offer solutions which

will remain on the cutting edge of technology for many years, while meeting and mostly exceeding expectations in terms of operating costs and environmental considerations.

The civil market requires a stronger focus on sustainability, where VHT has a number of green initiatives designed to reduce emissions, limit environmental impact and maximize circularity. VHT designs all of the solutions to be as energy efficient as possible. So when VHT modernizes a drive and control system, it's not just about improving the performance, but about improving sustainability, reducing energy consumption and lowering operational costs.

### Driving connectivity

Hardware upgrades for drive and control systems from VHT make a significant, positive difference, but another big part of modernization is adopting a more digital approach. When it's done in the right way, it can revolutionize drive and control systems, ensuring minimal downtime and deeper analytics to help improve efficiency.

Digitalization is a real priority. It can help reduce costs with things like predictive maintenance and remote access. This also means that rather than regular, scheduled physical visits to site from engineers, they only come out when they need to. This saves a lot of time and money. When you look at everything that can be achieved through a modernization process from VHT, it's understandable why it's in-demand all over Europe and rest of the world.

